

## CTN Test Report 92-015

**AFTB-ID 92-025** 



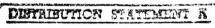
# **Technical Publication Transfer Test**

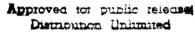




MIL-D-28001A (SGML) MIL-R-28002A (Raster)









## **Quick Short Test Report**



10 November 1992

19960822 201

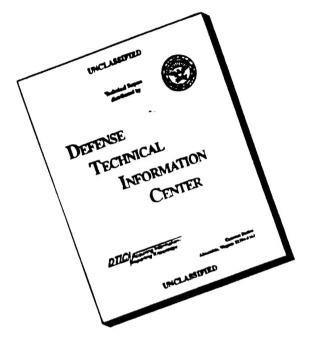


Prepared for

Air Force Materiel Command

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Technical Publication Transfer
Using VSE Corporation

MIL-M-28001A (SGML)

MIL-R-28002 (Raster)

Quick Short Test Report

10 November 1992

Prepared By Air Force CALS Test Bed Wright-Patterson AFB, OH 45433

AFTB Contact Gary Lammers (513) 427-2295

CTN Contact Mel Lammers (513) 427-2295

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#### 1. Introduction

## 1.1 Background

The DoD Computer-aided Acquisition and Logistics Support (CALS) Test Network (CTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The CTN is a DoD-sponsored confederation of voluntary participants from industry and government managed by the Air Force Materiel Command.

The primary objective of the CTN is to evaluate the effectiveness of the CALS Standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards, formal and informal. Formal tests are large, comprehensive tests that follow a written test plan, require specific authorization from DoD, and may take months to prepare, execute, and report.

Informal tests are used by the CTN technical staff to broaden the testing base by including representative samples of the many systems and applications used by CTN participants. They also allow the CTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and to respond, in a timely manner, to the many requests for help that come from participants. Participants take part voluntarily and are benefited by receiving an evaluation of their latest implementation (interpretation) of the standards, interacting with the CTN technical staff, gaining experience in use of the standards, and developing increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

#### 1.2 Purpose

The purpose of the informal test reported in this QSTR was to analyze VSE Corporation's interpretation and use of the CALS Standards in transferring technical publications data. VSE Corporation used its CALS Technical Data Interchange System to produce data in accordance with the standards and delivered it to the CTN technical staff on a 9-track magnetic tape.

#### 2. Test Parameters

Test Plan:

AFTB 92-25

Date of

Evaluation:

3 April 1992

Evaluator:

George Elwood

Air Force CALS Test Bed

HQ AFMC/ENCT

4027 Colonel Glenn Hwy

Suite 200

Dayton, OH 45431-1601

Data

Originator:

Steve Weber

VSE Corporation

Marine Corp Systems Division

2760 Eisenhower Ave. Alexandria, VA 22314

Data

Description:

Technical Manual Test

1 document declaration file

1 DTD

1 TEXT file

1 TEXT file

31 Raster files

Data

Source System:

Text/SGML

HARDWARE

Sun 3/60

Sun 3/280

SOFTWARE

ProPub II

VSE Tag Conversion Program

Exoterica XGML Normalizer

Raster

HARDWARE

Sun 3/60

SOFTWARE

CAPS Graphics Translator

## Evaluation Tools Used:

#### MIL-STD-1840A (TAPE)

SUN 3/280

CTN Tapetools (v1.2.8) UNIX Agfa Compugraphics CALS v40.4

#### MIL-M-28001 (SGML)

Cheetah Gold 486

Exoterica XGML V1.2e3.2 Datalogics ParserStation v3.36

#### MIL-R-28002 (Raster)

SUN 3/60

CTN Raster Tools
AGFA Compugraphics
Rosetta Technology Preview V3.1

Cheetah

Inset Systems HiJaak V2.02 Xerox Ventura Publisher

Standards Tested:

MIL-STD-1840A MIL-M-28001A MIL-R-28002

## 3. 1840A Analysis

## 3.1 External Packaging

The tape arrived at the Air Force Test Bed enclosed in a box IAW ASTM D 3951. The exterior of the box was marked with the required magnetic tape warning label, MIL-STD-1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the required label indicating the recording density as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files that were recorded on the tape.

## 3.2 Transmission Envelope

The 9-track tape received by the Air Force Test Bed contained MIL-STD-1840A files. The files were named per the standard conventions.

## 3.2.1 Tape Formats

The 1840A Tape was run through the AFTB TAPETOOL utility version 1.2.8. Two warnings were encountered while evaluating the contents of the tape labels. All of the errors are shown in Appendix A, Section Two, Tape Import Log.

Both reported warnings were the same. Tapetool encountered carriage returns in the two text files, D001T032 and D001G033. This problem normally occurs when text files are generated on a PC and then transferred to a UNIX based system. While not an error, these characters could cause a problem on some systems.

\*\*\* WARNING - This variable length record type file contained carriage control characters. Carriage control characters are used as record terminators and are interpreted differently among dissimilar systems.

The tape was also read using Agfa CAPS read1840A tape utility without a reported error.

#### 3.2.2 Declaration and Header Fields

No errors were reported in the Declaration file or the data file header records.

#### 4. IGES Analysis

No IGES files were included on the tape.

#### 5. SGML Analysis

The DTD and text file from this document were tested using the Exoterica XGMLNormalizer parser. During the parsing operation on the DTD four errors were reported. The first error was the duplicate definition of the entity reference fax. The entity was added to the list of external graphics entities and was also found in the DTD. It was also noted that the "!" was missing from the line. This line was commented out. It was also noted that the DOCTYPE statement was also missing the "!".

```
<DOCTYPE doc PUBLIC "-//USA-DOD//DTD MIL-M-38784C 093090//EN" [
<NOTATION fax PUBLIC "-//USA-DOD//NOTATION CCITT Group 4 Facsimile//EN">
```

The second set of errors were reported immediately after the external graphics references. The classification line had the comment line constructed incorrectly. The comment out termination was inserted after the graphic entities and a second termination was inserted after the first of two classification statements. The first comment termination was removed and the DTD parsed without reported error.

Using the compiled DTD, the text file parsed without error.

The DTD and text file were then parsed using the Datalogics ParserStation software. The required changes were made to the DTD

and it parsed without reported error. The compiled DTD was then used to parse the text file. This was accomplished without a reported error. It should be noted that the DataLogics parser does not use the added memory capability of the computer. This limits the size of text files that can be parsed. If the menu structure is used, it is not possible to parse the complete document. If the command line parsing operation is used, it is possible to complete the task. This memory limitation made it impossible to use the USLynx CALS Solution software to generate sample pages from the document.

## 6. Raster Analysis

All 31 raster images were checked using the CTN validg4 utility. File D001R006, D001R007, and D001R008 were reported as not meeting the CALS Standards. The error logs for these three files are included in the appendix to this report.

All sections of the raster files were converted using Rosetta Technologies Prepare. Files D001R006, D001R007, and D001R008 would not convert and reported that the files were bad. The remainder of the selected files converted without a reported error. The converted files were then viewed and printed using Rosetta's Preview. The printing was produced medium quality on a postscript printer with the exception of file D001R020 which was printed in high quality. The higher quality output indicates a very good raster image. No orphan pixels were noted on the selected files. The hard copies are included in the appendix to this report.

The files were then converted to an IMG format using Inset Systems HiJaak. These files were then inserted into a graphics document using Xerox Ventura Publisher. This document is included in the appendix to this report. HiJaak was able to convert files D001R006 and D001R007 but the files displayed that they were bad. HiJaak would not convert file D001R008.

#### 7. CGM Analysis

No CGM files were included on the tape.

#### 8. Conclusions and Recommendations

In summary, the MIL-STD-1840A tape from VSE Corporation was correct. The tape could be read using the software tools available in the Air Force CALS Test Bed with reported problems. Two warnings were generated by TAPETOOL on the use of carriage returns in the text files.

There were four reported errors in the DTD. Three of these errors relate to the incorrect placement of a comment termination. The other error was the duplicate definition of an entity. The text file parsed without reported error using the two parsers available in the AFCTB.

The 31 raster images were evaluated and three were found to be bad. The remaining raster images were valid and hard copies were made and are included in this report.

The tape from VSE Corporation, with the above noted exceptions, met the current CALS Standards.

## 9. Appendix A - Tape Tool Report Logs

## 9.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information ANSI X3.27 (1987) - File Structure and Labelling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Apr 3 10:59:05 1992

MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set099

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted			
D001 D001G033 D001R001 D001R002 D001R003 D001R004 D001R005 D001R006	Document Declaration DTD Raster Raster Raster Raster Raster Raster Raster Raster	D/00260 F/00128 F/00128 F/00128 F/00128 F/00128	02048/000001 02048/000016 02048/000006 02048/000010 02048/000082 02048/000003 02048/000014 02048/000019	Extracted Extracted Extracted Extracted Extracted Extracted Extracted Extracted			
<><< PART OF LOG REMOVED HERE >>>>							
D001R030 D001R031 D001T032 Catalog Process term	Raster Raster Text minated normally.	F/00128	02048/000006 02048/000013 02048/000212	Extracted Extracted Extracted			

#### 9.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release Number 8 Standards referenced:

ANSI X3.27 (1987) - File Structure and Labelling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Apr 3 10:58:08 1992

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

#### VOL1VSEC01

Label Identifier: VOL1
Volume Identifier: VSEC01
Volume Accessibility:
Owner Identifier:

Label Standard Version: 4

#### HDR1D001

VSEC0100010001000000 92069 00000 000000

Label Identifier: HDR1 File Identifier: D001

File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0000
Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069 Expiration Date: 00000 File Accessibility: Block Count: 000000

Implementation Identifier:

#### HDR2D0204800260

Label Identifier: HDR2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

00

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

#### EOF1D001

VSEC0100010001000000 92069 00000 000001

Label Identifier: EOF1 File Identifier: D001

File Set Identifier: VSEC01 File Section Number: 0001 File Sequence Number: 0001 Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069 Expiration Date: 00000 File Accessibility: Block Count: 000001

Implementation Identifier:

#### EOF2D0204800260

00

Label Identifier: EOF2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*\*

#### HDR1D001G033

VSEC0100010002000000 92069 00000 000000

Label Identifier: HDR1
File Identifier: D001G033
File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0002
Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000000

Implementation Identifier:

HDR2D0204800260

00

Label Identifier: HDR2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* WARNING - This variable length record type file contained carriage control characters. Carriage control characters are used as record terminators and are interpreted differently among dissimilar systems.

Number of data blocks read = 16.

\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

EOF1D001G033

VSEC0100010002000000 92069 00000 000016

Label Identifier: EOF1
File Identifier: D001G033
File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0002
Generation Number: 0000
Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000016

Implementation Identifier:

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*\*

HDR1D001R001

VSEC0100010003000000 92069 00000 000000

Label Identifier: HDR1
File Identifier: D001R001
File Set Identifier: VSEC01

File Section Number: 0001 File Sequence Number: 0003 Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000000

Implementation Identifier:

#### HDR2F0204800128

Label Identifier: HDR2
Recording Format: F
Block Length: 02048
Record Length: 00128
Offset Length: 00

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 6.

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

#### EOF1D001R001

VSEC0100010003000000 92069 00000 000006

Label Identifier: EOF1
File Identifier: D001R001
File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0003
Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000006

Implementation Identifier:

#### EOF2F0204800128

Label Identifier: EOF2
Recording Format: F
Block Length: 02048
Record Length: 00128
Offset Length: 00

00

00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*\*

<<<< PART OF LOG REMOVED HERE >>>>

\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

HDR1D001T032

VSEC0100010034000000 92069 00000 000000

Label Identifier: HDR1
File Identifier: D001T032
File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0034
Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000000

Implementation Identifier:

HDR2D0204800260

00

Label Identifier: HDR2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

\*\*\* WARNING - This variable length record type file contained carriage control characters. Carriage control characters are used as record terminators and are interpreted differently among dissimilar systems.

Number of data blocks read = 212.

\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*\*

EOF1D001T032

VSEC0100010034000000 92069 00000 000212

Label Identifier: EOF1
File Identifier: D001T032
File Set Identifier: VSEC01
File Section Number: 0001
File Sequence Number: 0034

00

Generation Number: 0000

Generation Version Number: 00

Creation Date: 92069
Expiration Date: 00000
File Accessibility:
Block Count: 000212

Implementation Identifier:

#### EOF2D0204800260

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260

Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

########## End of Volume VSEC01 ##############

########## End Of Tape File Set ###############

Deallocating /dev/rmt0...

Tape Import Process terminated with 0 error(s), 2 warning(s), and 0 note(s).

## 9.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release Number 8 Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information MIL-R-28002 (1989) - Raster Graphics Representation In Binary Format, Requirements For

Fri Apr 3 10:59:06 1992

MIL-STD-1840A File Set Evaluation Log

File Set: Set099

Found file: D001

Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: VSE Corporation, Marine Corps Systems Division, 2760 Eisenhower Ave., Alexandr

22314

srcdocid: TM 2350-25&P/2

srcrelid: NONE
chglvl: ORIGINAL
dteisu: 19920108

dstsys: CTN Wright-Patterson dstdocid: TM 2350-25&P/2

dstrelid: NONE dtetrn: 19920309 dlvacc: NONE filcnt: G1,R31,T1 ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: Technical Publication

docttl: Special Mission Kits for AAV

Found file: D001G033

Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: TM 2350-25&P/2
dstdocid: TM 2350-25&P/2

notes: NONE

Saving DTD Header File: D001G033\_HDR Saving DTD Data File: D001G033\_DTD

Found file: D001R001

Extracting Raster Header Records... Evaluating Raster Header Records...

srcdocid: TM 2350-25&P/2 dstdocid: TM 2350-25&P/2

txtfilid: W
figid: cover
srcgph: usmc

doccls: UNCLASSIFIED

rtype: 1

rorient: 000,270

rpelcnt: 000720,000709

rdensty: 0600 notes: NONE

Saving Raster Header File: D001R001\_HDR Saving Raster Data File: D001R001\_GR4

<><< PART OF LOG REMOVED HERE >>>>

Found file: D001R031

Extracting Raster Header Records... Evaluating Raster Header Records...

srcdocid: TM 2350-25&P/2
dstdocid: TM 2350-25&P/2

txtfilid: W figid: 6-6.2 srcgph: fig6-6.2 doccls: UNCLASSIFIED

rtype: 1

rorient: 000,270

rpelcnt: 002111,002160

rdensty: 0600 notes: NONE

Saving Raster Header File: D001R031\_HDR Saving Raster Data File: D001R031\_GR4

Found file: D001T032

Extracting Text Header Records...

Evaluating Text Header Records...

srcdocid: TM 2350-25&P/2
dstdocid: TM 2350-25&P/2

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D001T032\_HDR Saving Text Data File: D001T032\_TXT

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.

Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.

File Count verification complete.

No errors were encountered in Document D001.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

# 10. Appendix B - SGML Parser Logs10.1 XGML Parser Log

No reported errors.

## 10.2 Datalogics Parser Log

No reported errors

#### 11. Appendix C - Raster Files 11.1 Error Logs 11.1.1 D001R006

density = 600
path length = 1868
scan lines = 2190
bit format = MSB

error, scan length exceeds pel count s=1 a0=0 bstop=1869 pos=0

file = r006.cal

## 11.1.2 D001R007

density = 600
path length = 1931
scan lines = 2434
bit format = MSB

error, scan length exceeds pel count s=1 a0=0 bstop=1932 pos=0

file = r007.cal

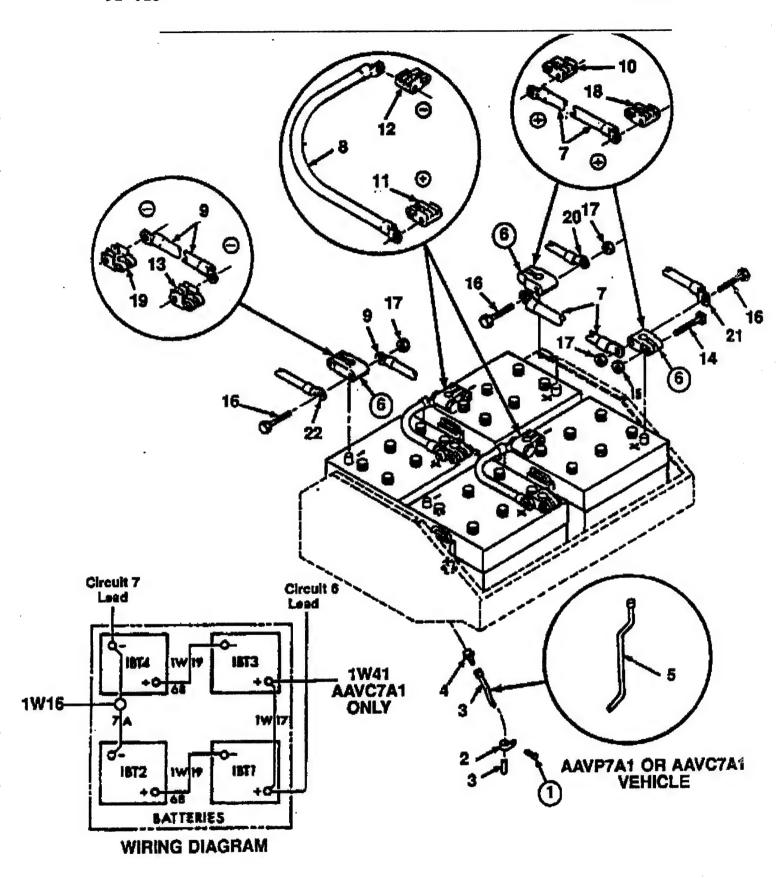
#### 11.1.3 D001R008

density = 600
path length = 1879
scan lines = 2119
bit format = MSB

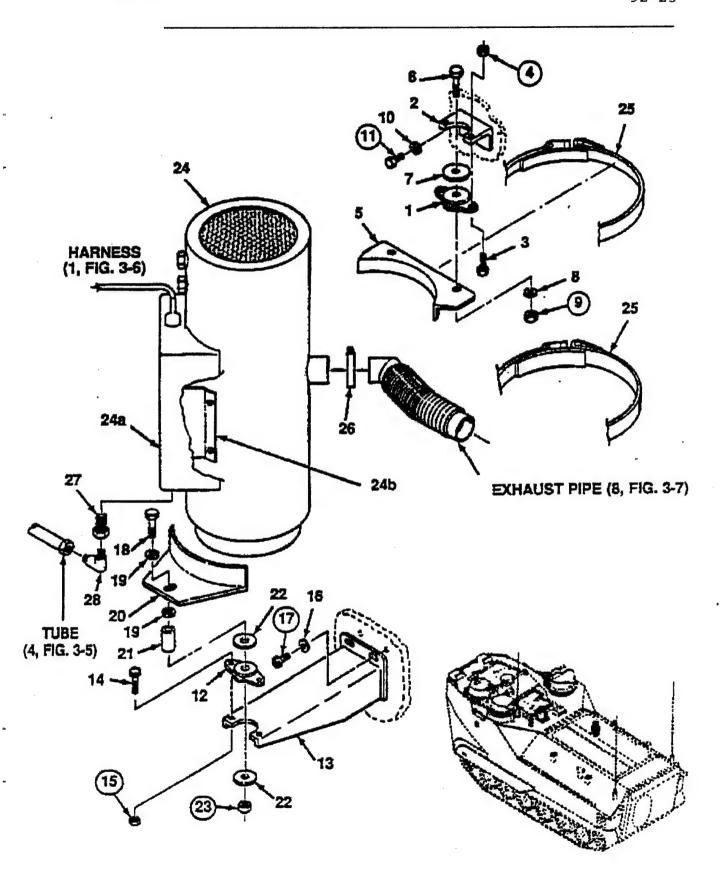
error, scan length exceeds pel count s=39 a0=0 bstop=1909 pos=21

file = r008.cal

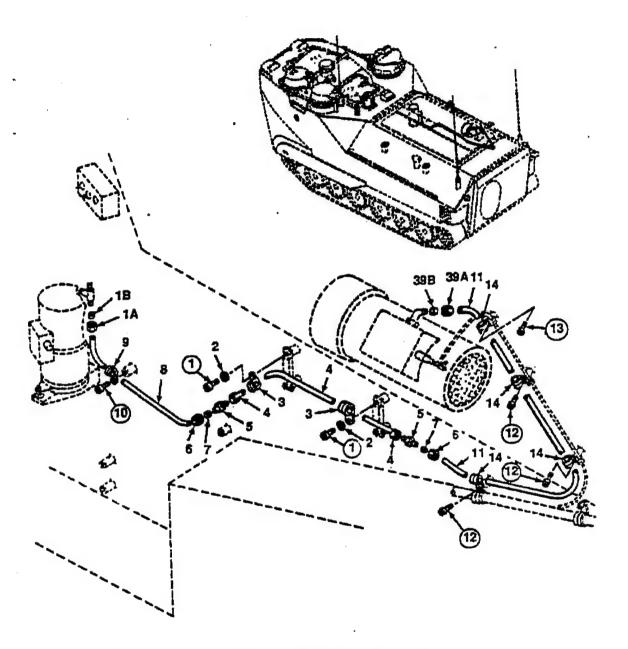
## 11.2 Preview 11.2.1 D001R005



## 11.2.2 D001R010



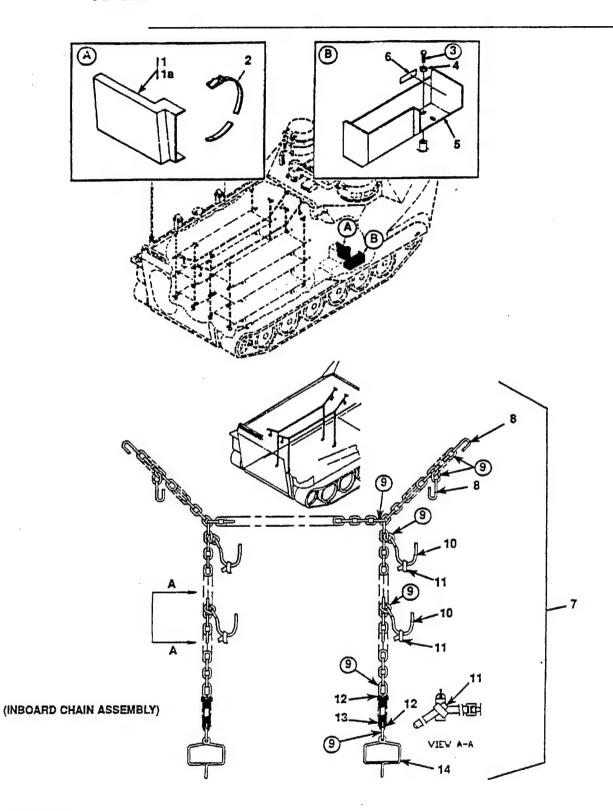
## 11.2.3 D001R015



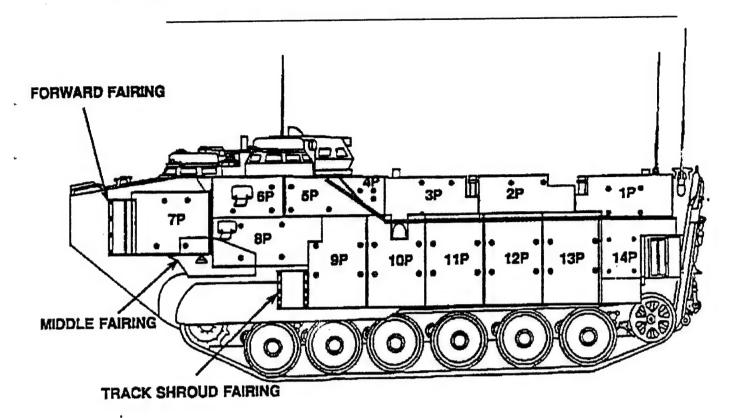
NOTES: 1. Nut 1A and sleeve 1B are part of tee (1, Figure 3-5).

2. Nut 39A and sleeve 39B are part of elbow (39, Figure 3-16).

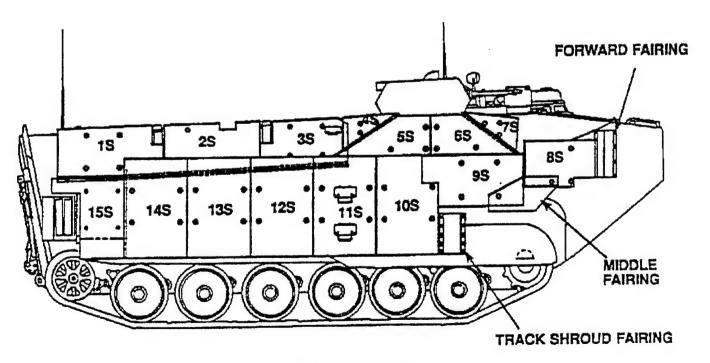
## 11.2.4 D001R020 - High Quality



## 11.2.5 D001R025

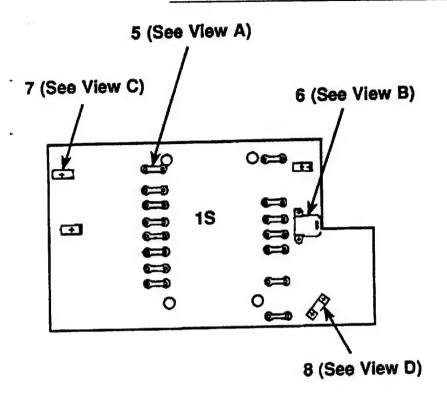


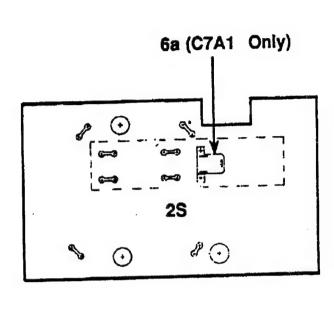
PORT

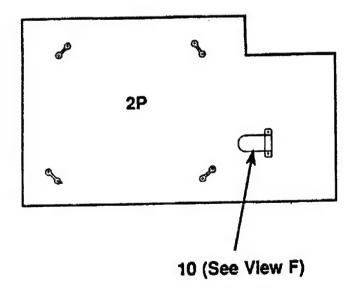


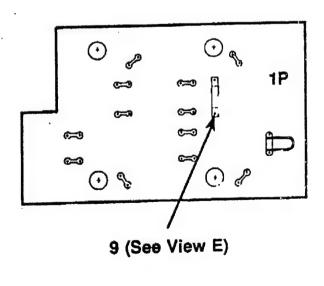
STARBOARD

## 11.2.6 D001R030

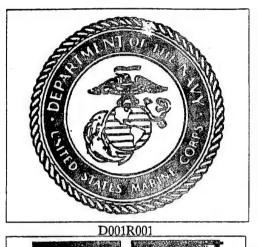


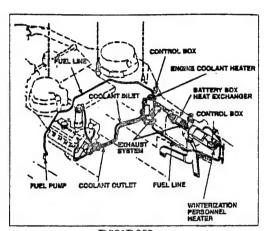


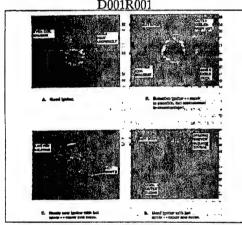


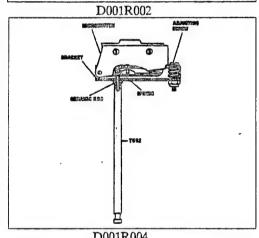


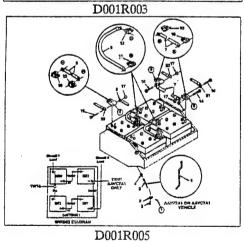
## 11.3 HiJaak/Ventura Publisher 11.3.1 D001R001 - D001R006

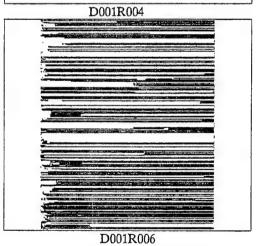




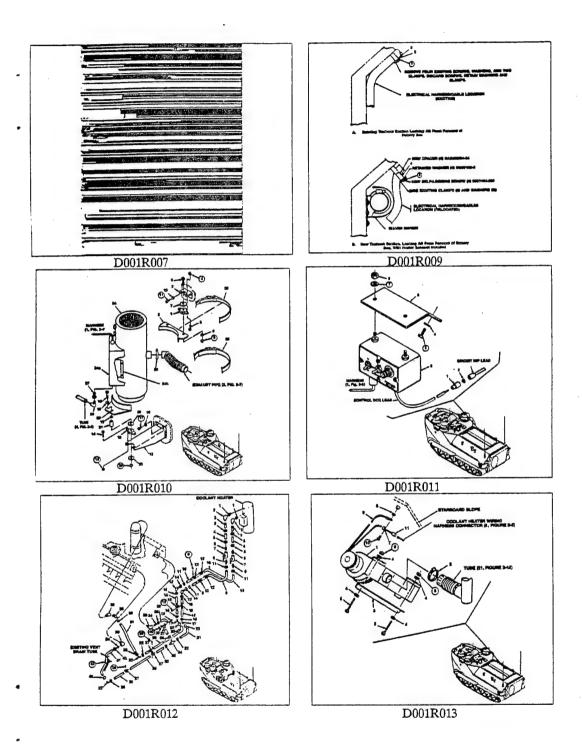




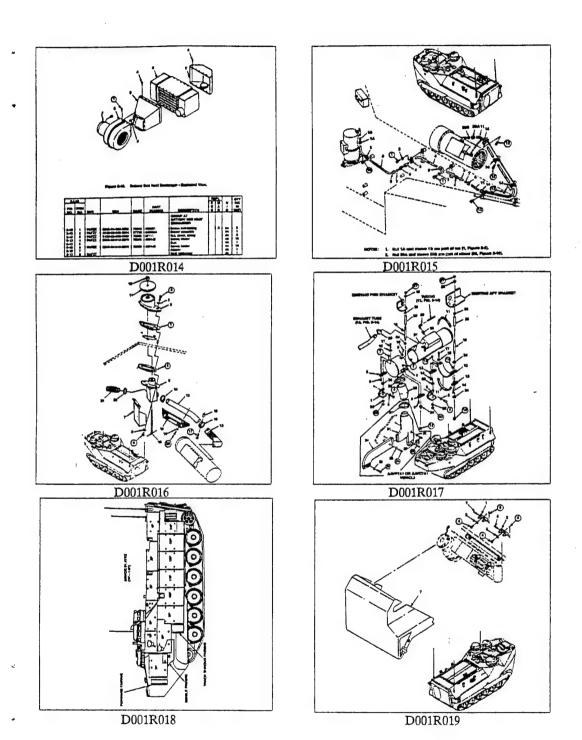




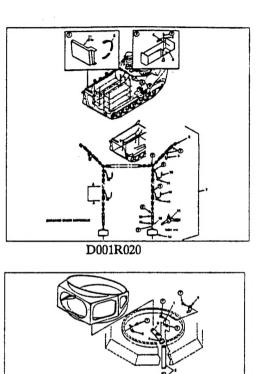
## 11.3.2 D001R007 - D001R013

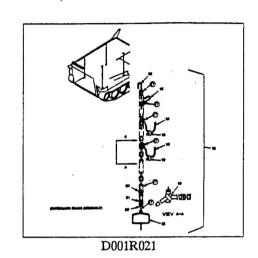


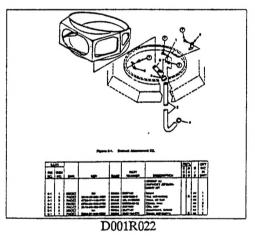
## 11.3.3 D001R014 - D001R019

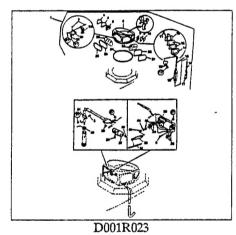


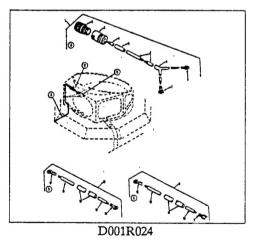
## 11.3.4 D001R020 - D001R025

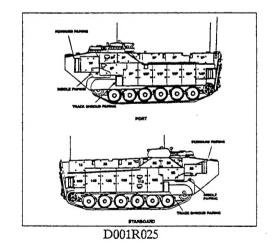












## 11.3.5 D001R026 - D001R031

